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NOTICE OF ALLOWANCE AND FEE(S) DUE

65913 7590 04/06/2009

NXP, B.V. NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

EXAMINER				
ВАЕ, ЈІ Н				
ART UNIT	PAPER NUMBER			

2115 DATE MAILED: 04/06/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,607	07/27/2006	Francesco Pessolano	NL040077US1	9957

TITLE OF INVENTION: METHOD AND APPARATUS FOR OVER CLOCKING IN A DIGITAL PROCESSING SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the T a substitute for filing: (B) RESIDENCE: (CI	e pate an as	ent. If an assigne signment. and STATE OR C	OUNT	RY)	ocument has been filed for
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- _	TUAL PROPERTY DE	ART UNIT	PAPER NUMBER	
M/S41-SJ 1109 MCKAY DR SAN JOSE, CA 95			2115 DATE MAILED: 04/06/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 312 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 312 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/587,607	PESSOLANO, FRANCESCO	
Notice of Allowability	Examiner	Art Unit	
	JI H. BAE	2115	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	ears on the cover sheet w (OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	ith the correspondence address n this application. If not included unication will be mailed in due course. THIS	
1. X This communication is responsive to RCE filed on 3/18/200	<u>09</u> .		
2. ☑ The allowed claim(s) is/are <u>1-7</u> .			
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the depo attached Examiner's comment regarding REQUIREMENT	been received. been received in Application cuments have been received of this communication to file IENT of this application. itted. Note the attached EX es reason(s) why the oath of the submitted. son's Patent Drawing Review. Amendment / Comment of the header according to 37 Cl sit of BIOLOGICAL MAT	on No In this national stage application from the din this national stage application from the ear reply complying with the requirements. AMINER'S AMENDMENT or NOTICE OF redeclaration is deficient. W (PTO-948) attached In the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 7. ☐ Examiner's 8. ☒ Examiner's 9. ☐ Other /Thomas Lee/	oformal Patent Application cummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance tent Examiner, Art Unit 2115	

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Independent claims 1, 4, and 7 are directed towards a method and apparatus for determining a maximum clock frequency for a digital processing system, wherein the maximum clock frequency is used only during a run time when the digital processing system is starving output signals and blocking input signals. Independent claim 5 is similar in scope, except that it recites that the maximum clock frequency is used only when the digital processing system is starving output signals.

Miao, U.S. Patent Application Publication No. 2005/0265500, teaches a system [Fig. 1] comprised of a network [140], a remote system [110], and a local system [150]. Miao further teaches the frequency of the remote clock contained in the remote system may be increased to avoid starving the local system of information.

Terrell, II, U.S. Patent No. 7,043,649, teaches a system wherein a system clock frequency is increased to its maximum value to guard against system performance starvation [col. 5, line 64 to col. 6, line 3].

Miao and Terrell teach that a system clock frequency may be increased to prevent starvation generally, but do not specifically address starvation of outputs. Additionally, neither Miao nor Terrell discusses blockage of inputs, or determining a maximum clock frequency. Klock (cited in prior office action) teaches a method for determining a maximum clock frequency, but does not teach using the maximum clock frequency only when inputs are blocked and outputs are starving. The combination of Williams and Rosno (cited in prior office action) teaches a method and apparatus for determining a maximum clock frequency and switching from a nominal frequency to maximum frequency, but does not teach that the switching to a maximum frequency occurs only when inputs are blocked and outputs are starving.

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The cited prior art does not teach, alone or in combination, determining a maximum clock frequency for a digital processing **and** using the maximum clock frequency **only** when inputs are blocked and outputs are starving. The examiner notes that applicant's usage of "only" restricts the invention's use of the maximum clock frequency solely to the scenario wherein outputs are starved and inputs are blocked (as in claims 1, 4, and 7), or when outputs are starved (as in claim 5).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JI H. BAE whose telephone number is (571)272-7181. The examiner can normally be reached on Monday-Friday, 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JI H. BAE/ Examiner, Art Unit 2115 U.S. Patent and Trademark Office 571-272-7181 ji.bae@uspto.gov

/Thomas Lee/ Supervisory Patent Examiner, Art Unit 2115